

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Original) A method of performing communications in a wireless network,
2 comprising:
3 determining if a mobile station is subscribed to a first level of service or a second
4 level of service;
5 communicating packet-switched traffic; and
6 releasing a logical connection between the mobile station and a wireless access
7 system according to a first procedure if subscribed to the first level of service and according to a
8 second, different procedure if subscribed to the second level of service.

1 2. (Previously Presented) The method of claim 1, wherein the determining,
2 communicating, and releasing acts are performed by the mobile station.

1 3. (Original) The method of claim 1, wherein releasing the logical connection
2 comprises releasing a temporary block flow.

1 4. (Original) The method of claim 3, wherein releasing the temporary block flow
2 comprises releasing an uplink temporary block flow.

1 5. (Previously Presented) The method of claim 3, wherein communicating the
2 packet-switched traffic comprises carrying the packet-switched traffic in one or more channels
3 defined by a protocol selected from the group consisting of a General Packet Radio Service
4 (GPRS) protocol, an Enhanced GPRS protocol, and a Global System for Mobile/Enhanced Data
5 Rate for Global Evolution Radio Access Network (GERAN) protocol.

1 6. (Previously Presented) The method of claim 1, further comprising:
2 if the mobile station is subscribed to the first level of service, starting a timer in
3 the mobile station after detecting there is no further data to send,
4 wherein releasing the logical connection is performed after expiration of the
5 timer.

1 7. (Original) The method of claim 6, wherein if the mobile station is subscribed to
2 the second level of service, the logical connection is released in response to detecting there is no
3 further data to send without use of the timer.

1 8. (Original) The method of claim 7, wherein detecting there is no further data to
2 send is performed by detecting if a send buffer is empty or is about to become empty.

1 9. (Currently Amended) A system for providing communications in a wireless
2 network, comprising:
3 a controller operable to determine if a mobile station is subscribed to a first level
4 of service or a second level of service; and wherein
5 the controller is operable to further determine when data transmission to the
6 mobile station is about to end, and in response to determining that data transmission to the
7 mobile station is about to end, the controller is adapted to generate ~~filler~~ dummy data for sending
8 to the mobile station if the mobile station is subscribed to the first level of service to enable a
9 wireless connection to the mobile station to be maintained.

1 10. (Currently Amended) The system of claim 9, wherein the controller is adapted to
2 not generate ~~filler~~ dummy data for sending to the mobile station if the mobile station is
3 subscribed to the second level of service.

1 11. (Currently Amended) The system of claim 9, further comprising a timer to define
2 a time period during which the ~~filler~~ dummy data is generated.

1 12. (Currently Amended) The system of claim 11, wherein the controller is adapted
2 to stop sending the ~~filler~~ dummy data after the timer expires.

1 13. (Original) The system of claim 9, wherein the controller comprises a serving
2 General Packet Radio Service support node control module.

1 14. (Original) The system of claim 9, wherein the controller is adapted to determine
2 end of data transmission by determining if a send buffer in a wireless access system is empty or
3 about to be empty.

1 15. (Original) The system of claim 14, further comprising a storage module to store
2 information pertaining to one or more characteristics of the send buffer,
3 the controller adapted to determine if the send buffer is empty or about to be
4 empty based on the one or more characteristics.

1 16. (Original) The system of claim 15, wherein the one or more characteristics
2 comprise one or more of a size of the send buffer and a leaky rate of the send buffer.

1 17. (Original) The system of claim 9, wherein the wireless connection comprises a
2 temporary block flow.

1 18. (Currently Amended) An article comprising at least a storage medium containing
2 instructions that when executed cause a core network system to:

3 send packet-switched data from the core network system to a wireless access
4 system for communicating to a mobile station;

5 determine by the core network system if a send buffer in the wireless access
6 system to store the data is about to become empty; [[and]]

7 if the send buffer is about to become empty, send, by the core network system,
8 ~~filler~~ dummy data to the wireless access system to maintain a connection between the wireless
9 access system and the mobile station; and

10 start a timer to provide a time period during which the dummy data is to be sent
11 from the core network system to the wireless access system.

1 19. (Currently Amended) The article of claim 18, wherein the instructions when
2 executed cause the core network system to send ~~filler~~ dummy data to maintain a temporary block
3 flow.

1 20. (Cancelled)

1 21. (Currently Amended) The article of claim 18, wherein the instructions when
2 executed cause the core network system to further determine if the mobile station is subscribed
3 to a first service level and to send the ~~filler~~ dummy data in response to determining the mobile
4 station is subscribed to the first service level.

1 22. (Previously Presented) A mobile station, comprising:
2 an interface block to a wireless link to a wireless access system;
3 a controller adapted to determine if the mobile station is subscribed to a first level
4 of service or a second level or service,
5 the controller being adapted to release a temporary block flow on the wireless link
6 according to a first procedure if subscribed to the first level of service and according to a second,
7 different procedure if subscribed to the second level of service.

1 23. (Previously Presented) The mobile station of claim 22, wherein the temporary
2 block flow is defined by a packet-switched wireless protocol selected from the group consisting
3 of a General Packet Radio Service protocol, an Enhanced General Packet Radio Service
4 protocol, and a Global System for Mobile/Enhanced Data Rate for Global Evolution Radio
5 Access Network protocol.

1 24. (Previously Presented) The article of claim 18, wherein the core network system
2 is a serving GPRS support node (SGSN).

1 25. (New) The method of claim 1, wherein releasing the logical connection
2 according to the first procedure is performed in response to determining that the mobile station is
3 subscribed to the first level of service, and releasing the logical connection according to the
4 second procedure is performed in response to determining that the mobile station is subscribed to
5 the second level of service.